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(54) ALLOYED HOT-DIP GALVANIZED STEEL SHEET AND ITS MANUFACTURING METHOD

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an alloyed hot-dip steel sheet superior in a sliding property at press forming, and a method for manufacturing the same.

SOLUTION: The alloyed hot-dip galvanized steel sheet has 'a flat part on a surface plated with a iron-zinc alloy and an oxide layer of 10 nm or thicker on the surface of a the flat part. In addition, an area factor of the flat part on the surface plated with the iron-zinc alloy is 20-80%, and the plated layer principally consists of $\delta 1$ phase and includes ζ phase. The method for manufacturing the alloyed hot-dip galvanized steel sheet comprises subjecting a steel sheet to the hot-dip galvanizing, alloying it with a heat treatment, subjecting it to a temper rolling, and forming an oxide layer on the plated surface.

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